

Profilin 2 Rabbit pAb

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Catalog # AP57235

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P35080
Reactivity	Human
Predicted	Mouse, Rat, Chicken, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15046
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Profilin 2
Epitope Specificity	51-140/140
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton.
SIMILARITY	Belongs to the profilin family.
SUBUNIT	Occurs in many kinds of cells as a complex with monomeric actin in a 1:1 ratio.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Profilin 2 is a ubiquitous actin monomer-binding protein belonging to the profilin family. It is thought to regulate actin polymerization in response to extracellular signals by binding to actin (1:1 ratio) and so affecting the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Highly expressed in skeletal muscle, kidney and brain and less strongly in placenta, heart, liver and lung.

Additional Information

Gene ID	5217
Other Names	Profilin-2, Profilin II, PFN2
Target/Specificity	Highly expressed in brain, skeletal muscle and kidney and less strongly in heart, placenta, lung and liver.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

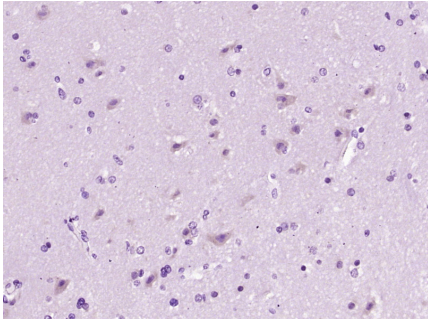
Protein Information

Name	PFN2
Function	Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG.
Cellular Location	Cytoplasm, cytoskeleton.
Tissue Location	Highly expressed in brain, skeletal muscle and kidney and less strongly in heart, placenta, lung and liver

Background

Profilin 2 is a ubiquitous actin monomer-binding protein belonging to the profilin family. It is thought to regulate actin polymerization in response to extracellular signals by binding to actin (1:1 ratio) and so affecting the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Highly expressed in skeletal muscle, kidney and brain and less strongly in placenta, heart, liver and lung.

Images



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Profilin 2) Polyclonal Antibody, Unconjugated (AP57235) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.